## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims: Listing of Claims:

- 1. (Currently Amended) A method for producing a transgenic cotton plant comprising the steps of:
  - (a) obtaining cotton petiole explants,
- (b) exposing the petiole explants to a culture of *Agrobacterium tumefaciens* that harbors a vector comprising an exogenous gene and a selectable marker, the *Agrobacterium* being capable of effecting the stable transfer of the exogenous gene and selection agent resistance gene to the genome of the cells of the petiole explant,
- (c) culturing the petiole explants in medium containing <del>low concentrations of one or more plant hormones to induce callus formation,</del>
  - (d) selecting a transformed callus that expresses the exogenous gene,
- (e) culturing the selected callus in suspension culture to induce formation of embryoids, and
  - (f) regenerating an embryoid to obtain a transgenic cotton plant.
- 2. (Previously Presented) The method of claim 1, wherein the petiole explants are pre-cultured for a period of time prior to exposure to the culture of *Agrobacterium* tumefaciens.

- 3. (Previously Presented) The method of claim 1, wherein the culture media used in steps (b)-(e) have glucose as the sole carbon source.
- 4. (Previously Presented) The method of claim 3, wherein the glucose is at a concentration of about 10 g/l to about 50 g/l.
- 5. (Previously Presented) The method of claim 4, wherein the glucose is at a concentration of about 30 g/l.
- 6. (Previously Presented) The method of claim 1, wherein the culture media used in steps (b) and (d)-(f) do not contain hormones.
- 7. (Previously Presented) The method of claim 1, wherein embryoid regeneration of step (f) is carried out in a medium having a source of nitrogen selected from the group consisting of asparagine, glutamine or both asparagine and glutamine.
- 8. (Previously Presented) The method of claim 7, wherein the source of nitrogen is at a concentration of about 700 mg/l to about 5 g/l.
- 9. (Previously Presented) The method of claim 8, further comprising a medium containing KNO<sub>3</sub> as a source of nitrogen at a concentration of about 3.8 g/l.

- 10. (Previously Presented) The method of claim 7, wherein the source of nitrogen is both asparagine and glutamine, and the asparagine is at a concentration of about 200 mg/l to about 1 g/l and the glutamine is at a concentration of about 500 mg/l to about 2 g/l.
- 11. (Previously Presented) The method of claim 10, wherein the asparagine is at a concentration of about 500 mg/l and the glutamine is at a concentration of about 1 g/l.
- 12. (Previously Presented) The method of claim 1, wherein the suspension culture of step (e) has a duration of less than about 20 days.
- 13. (Previously Presented) The method of claim 12, wherein the suspension culture of step (e) has a duration of about 10 days to about 20 days.
- 14. (Previously Presented) The method of claim 13, wherein the suspension culture of step (e) has a duration of about 14 days.
- 15. (Canceled)
- 16. (Canceled)

- 17. (Previously Presented) The method of claim 1, wherein step (c) is carried out in the presence of 2,4-dichlorophenoxyacetic acid at a concentration from 0 to about 0.5 mg/l and kinetin concentration from 0 to about 1 mg/l.
- 18. (Previously Presented) The method of claim 17, wherein the 2,4-dichlorophenoxyacetic acid is at a concentration of about 0.05 mg/l and the kinetin is at a concentration of about 0.1 mg/l.
- 19. (Currently Amended) A method for producing a transgenic cotton plant comprising the steps of:
  - (a) obtaining tender petiole explants from cotton plants as explants,
- (b) exposing the petiole explants to a culture of *Agrobacterium tumefaciens* that harbors a vector comprising an exogenous gene and a selectable marker, the *Agrobacterium* being capable of effecting the stable transfer of the exogenous gene and selection agent resistance gene to the genome of the cells of the petiole explant,
- (c) culturing the petiole explants to induce callus formation in medium containing about 0.05 mg/l 2, 4-dichlorophenoxyacetic acid and about 0.1 mg/l kinetin,
  - (d) selecting a transformed callus that expresses the exogenous gene,
- (e) culturing the selected callus in suspension culture containing no added plant hormones to induce formation of embryoids, and

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(f) regenerating an embryoid to obtain a transgenic cotton plant in a medium containing  ${\rm KNO_3}$  at a concentration of 3.8 mg/l.